

**CLAIMS**

What is claimed is:

1        1. A removable housing cover adapted to be detachably  
2 connectable to a portable radio communication device with a plurality  
3 of operating characteristics, the removable housing cover comprising:

4                an identity means; and

5                the portable radio communication device comprising:

6                a sensor for sensing the identity means of the removable  
7 cover; and

8                a processor for controlling the operating characteristics of  
9 the device, the arrangement being such that in use the  
10 removable housing cover is mounted on the portable radio  
11 communication device and the sensor senses the identity means  
12 and outputs a sensed parameter of the identity means to the  
13 processor, wherein the processor is responsive to the sensed  
14 parameter so as to change selected ones of the operating  
15 characteristics of the portable radio communication device.

1        2. A removable housing cover according to claim 1, wherein  
2 the portable radio communication device is provided with a plurality of  
3 pre-defined and pre-stored operating characteristic configurations, and  
4 the processor is operable to change the operating characteristics of the  
5 portable radio communication device by selecting one of the pre-  
6 defined and pre-stored configurations in accordance with a  
7 corresponding pre-defined sensed parameter of the identity means.

1        3. A removable housing cover according to claim 2, wherein  
2 the identity means causes the processor to change the operating  
3 characteristics of the portable radio communication device by selecting  
4 one or more of the plurality of operating characteristics pre-defined and  
5 pre-stored on the portable radio communication device.

1       4. A removable housing cover according to claim 1, wherein  
2 the identity means is provided with a plurality of pre-defined and pre-  
3 stored operating characteristic configurations for the portable radio  
4 communication device, and the sensor comprises a reader for reading  
5 said operating characteristics of said identity means, whereby the  
6 identity means causes the processor to change the operating  
7 characteristics of the portable radio communication device by selecting  
8 one or more of the plurality of said operating characteristic  
9 configurations.

1       5. A removable housing cover according to claim 1, wherein  
2 the identity means allows the portable radio communication device to  
3 access a pre-determined server or network and to download therefrom  
4 data comprising operating characteristic configurations for the portable  
5 radio communication device.

1       6. A removable housing cover according to claim 5, wherein  
2 the pre-determined server or network corresponds to an internet  
3 website.

1       7. A removable housing cover according to claim 1, wherein  
2 the identity means comprises one or more mechanical pegs and the  
3 sensor comprises contacts operable to sense the presence or absence  
4 of pre-defined combinations of said one or more pegs.

1       8. A removable housing cover according to claim 1, wherein  
2 the identity means comprises an electrical resistance means and the  
3 sensor comprises a potential divider operable to sense the electrical  
4 resistance means.

1       9. A removable housing cover according to claim 1, wherein  
2 the identity means comprises a memory or processor chip and the  
3 sensor comprises a reader for reading said memory or processor chip.

1 10. A removable housing cover according to claim 1, wherein  
2 the operating characteristics of the portable radio communication  
3 device comprise one or more of:

4 -ring tones and/or musical alerts;  
5 -animations/screen savers;  
6 -mode;  
7 -bookmarks and/or browser preferences;  
8 -phone memory preferences;  
9 -games and/or game elements;  
10 -UI screen colours and/or UI style;  
11 -input method;  
12 -audio set-up;  
13 -default messages;  
14 -display language;  
15 -agents and/or agent set-up;  
16 -security keys;  
17 -push message filters and/or accounts;  
18 -enabling of set-up and/or configuration settings;  
19 -sensor weighting;  
20 -outgoing call restrictions.

1        11. A housing cover for a portable radio communication device  
2 with a sensor, the housing cover comprising:

3                an attaching means for removably attaching the cover to  
4 the portable radio communication device;

5                an identity means, such that, when the housing cover is  
6 mounted on the portable radio communication device, the identity  
7 means is coupled with the sensor of the portable radio  
8 communication, wherein the internal functionality of the portable  
9 radio communication device is dependent on the identity means.

1        12. A housing cover according to claim 11, wherein the identity  
2 means has associated with it a Profiles setting indicative of a pre-  
3 defined operation state of the device, such that mounting the cover on  
4 a portable radio communications device changes the Profiles setting of  
5 the device in accordance with the Profile setting associated with the  
6 cover.

1        13. A housing cover according to claim 12, wherein a selected  
2 removable cover having an associated Profiles setting is in use located  
3 on the portable radio communication device and controls the operating  
4 characteristics of the portable radio communication device so as to be  
5 set to the corresponding Profiles setting.

1        14. A removable housing cover according to claim 1, wherein  
2 the removable cover carries indicia and graphics thereon, and the  
3 removable housing cover covers all or a part of the radio  
4 communication device.

1        15. A portable radio communication device having a removable  
2 housing cover, the portable radio communication device comprising:  
3                a sensor; and

4                   a processor for controlling the operating characteristics of  
5                   the device, and the removable housing cover comprising an  
6                   identity means, the removable housing cover being configured to  
7                   be mounted on and attached to the portable radio communication  
8                   device, in which arrangement the sensor of the portable radio  
9                   communication device is operable to sense the identity means of  
10                  the removable housing cover and provide an input to the  
11                  processor of a sensed feature of the identity means, such that  
12                  the processor is controlled to alter one or more of the operating  
13                  characteristics in accordance with the sensed feature of the  
14                  identity means.

1                   16. A portable radio communication device according to claim  
2                   15, wherein the portable radio communication device includes a  
3                   plurality of the pre-defined operating characteristics each of said  
4                   operating characteristics being associated with a corresponding  
5                   Profiles setting, and wherein a plurality of removal covers are  
6                   associated with respective Profiles Setting, such that installation of a  
7                   removable cover on the portable radio communication device activates  
8                   the corresponding Profiles setting.

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